

PATENT ABSTRACTS OF JAPAN

A196

(11)Publication number : 09-225991

(43)Date of publication of application : 02.09.1997

(51)Int.Cl.

B29C 47/60
B29B 7/46
C08J 3/20
C08K 3/00
C08L 77/00
C08L101/00
// B29K 77:00
B29K503:08

(21)Application number : 08-039297

(71)Applicant : ASAHI CHEM IND CO LTD

(22)Date of filing : 27.02.1996

(72)Inventor : OKANO HIROSHI

OYAMADA HIROSHI

(54) MANUFACTURE OF COMPOSITE MATERIAL OF THERMOPLASTIC RESIN-CLAY MINERAL

(57)Abstract:

PROBLEM TO BE SOLVED: To manufacture a composite material of thermoplastic resin-clay mineral with good mechanical properties by an economical and simple method.

SOLUTION: The manufacture is such that (A) 100 pts.wt. of thermoplastic resin, (B) 0.05-50 pts.wt. of clay mineral with an onium ion carrying organic substance inserted in layers, and (C) dispersion medium of 0.1-5000 pts.wt. of dispersion medium relative to 100 pts.wt. of (B) component are melt-kneaded by an extruder having a ratio of flight width/pitch in the screw of a supplier in the range of 0.1-0.49.

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[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]